This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type: Display
Manufacturer: Sharp
Firmware Version: N/A
Model(s):   LC-46LE540U

Version History:

Driver Version	Date	IP Link Compiler	GC Version	Notes
1	4/26/2012	1.5.1	3.3.1	Initial version.

Driver Notes:

Steps for setting major and minor channel –

1. Select channel type (Analog , Digital Air , Digital Cable 1 , Digital Cable 2)
2. Possible channels for –
   Analog(only major channel can be set 1-135)
   Digital Air (major (1- 99) and minor channel 0-99)
   Digital Cable 1 (major (1- 999) and minor channel 0-999)
   Digital Cable 2 (major – 1-9999)
3. Use keypad for selecting channel number.
4. Period (.) Is used for selecting minor channel.
5. Press Enter to send the command for the selected channel.

IP Link® Device Interface Communication Sheet

Control Commands & States:

Aspect Ratio	Normal	Stretch	Zoom
	Full	Cinema	Dot by Dot
	Toggle		
Channel	Analog	Digital Air	Digital Cable 1
	Digital Cable 2		
Channel TV (Step)	Up	Down	
Input	HDMI1	HDMI2	HDMI3
	HDMI4	Component	PC
	USB	TV	Toggle
Keypad	0-9	.	Enter
	Clear		
Mute	On	Off	Toggle
Power Control	On	Off	
Volume (Discrete)	0 to 60 in steps of 1		

Status Available:

Aspect Ratio	Normal	Stretch	Zoom
	Full	Cinema	Dot by Dot
Connection Status	Connected	Disconnected	
Input	HDMI1	HDMI2	HDMI3
	HDMI4	Component	PC
	USB		
Mute	On	Off	Toggle
Power Control	On	Off	
Volume (Discrete)	0 to 60 in steps of 1		

IP Link® Device Interface Communication Sheet

MLC60 Series Supported Commands:

Aspect Ratio	Normal	Stretch	Zoom
	Full	Cinema	Dot by Dot
	Toggle		
Channel TV (Step)	Up	Down	
Input	HDMI1	HDMI2	HDMI3
	HDMI4	Component	PC
	USB	TV	Toggle
Mute	On	Off	Toggle
Power Control	On	Off	
Volume (Discrete)	0 to 60 in steps of 1		

IP Link® Device Interface
Communication Sheet

Cable and Adapter Requirements:

F/F RS-232 Null modem Cable.
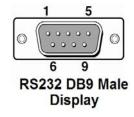
Notes for the Device:

Serial communication:

Port Type:	RS-232	**Parity:**	None
Baud Rate:	9600	**Stop Bits:**	1
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram:

Signal	Pin	Main Cable	Pin	Signal
RxD	2		2	RxD
TxD	3		3	TxD
GND	5		5	GND

RS232 DB9 Male IP Link® Device Interface

RS232 DB9 Male Display

Note: Captive screw connector may also be used as a serial connection.

General Notes: